

FIG.1

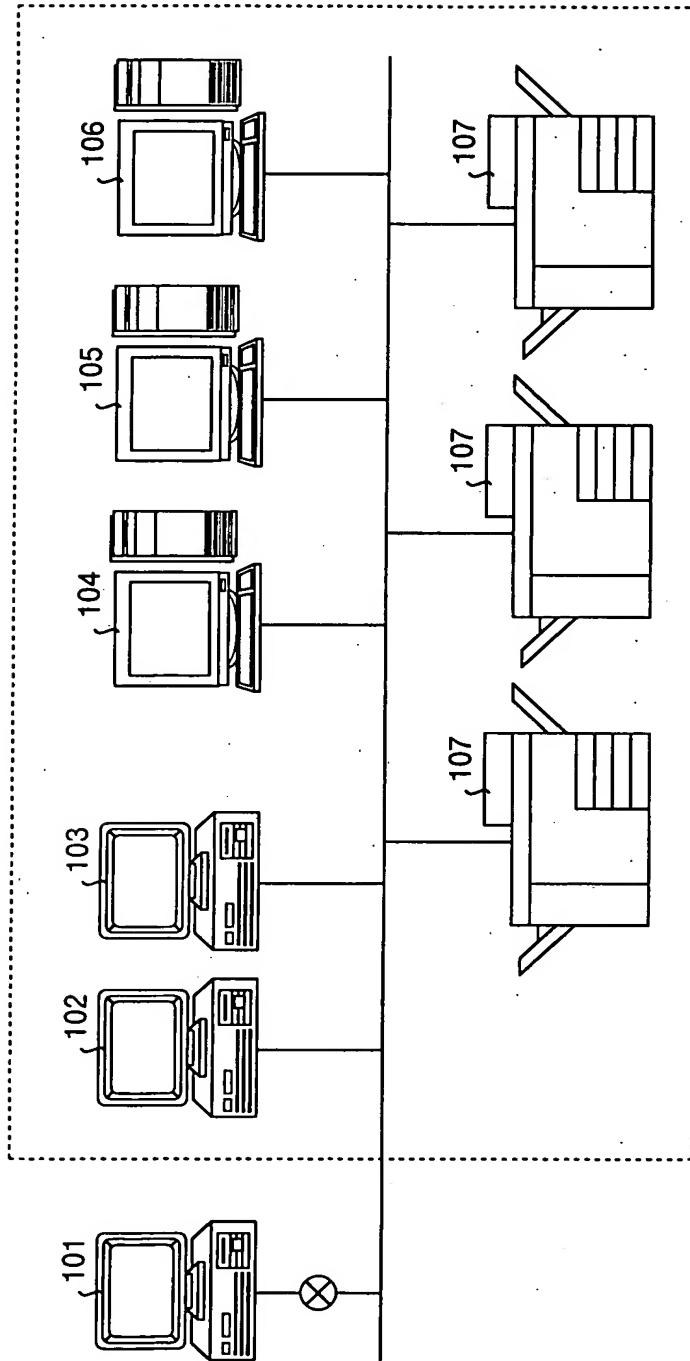
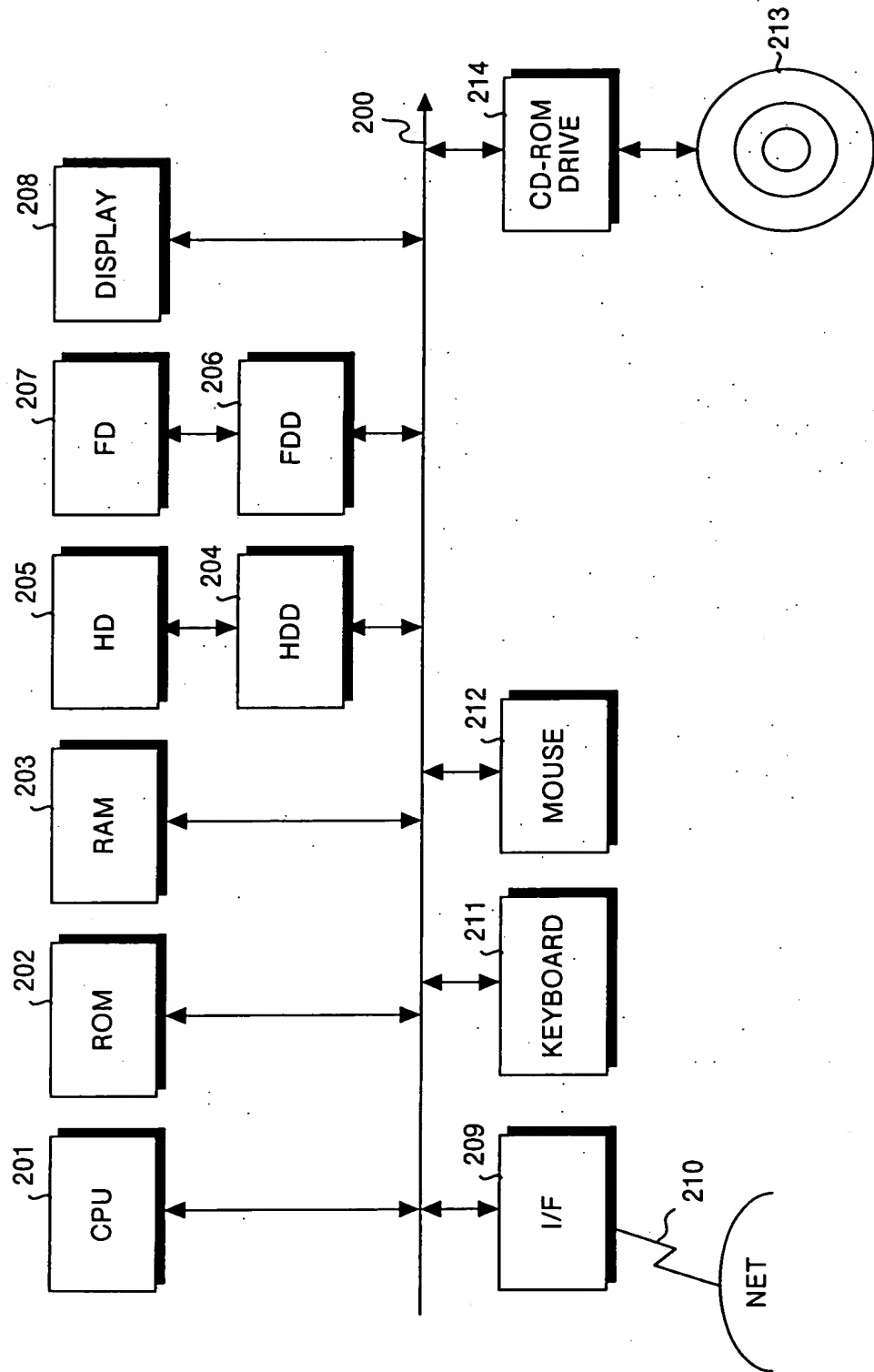
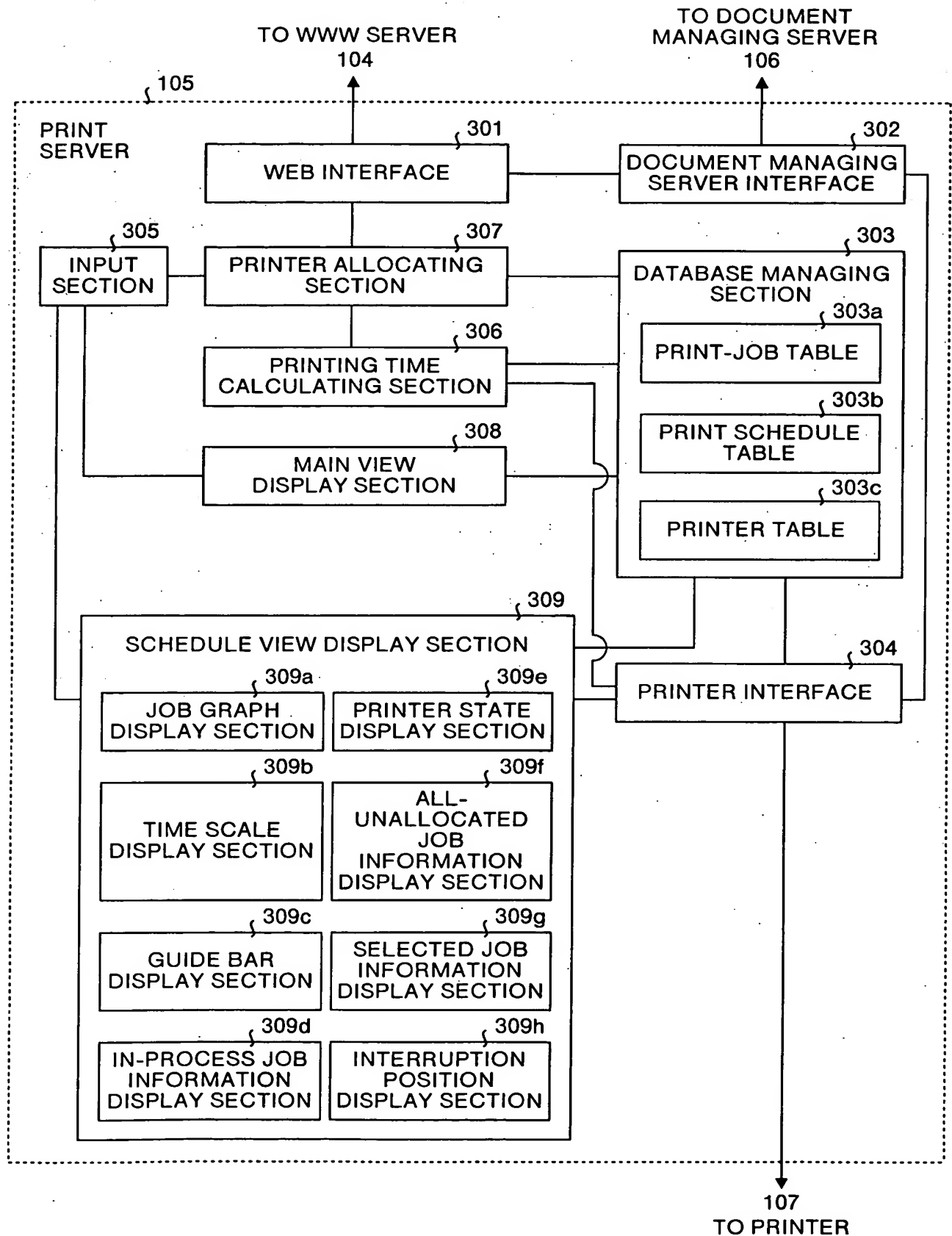


FIG.2



3/19

FIG.3



4/19

FIG.4

| ITEM ID | DATA TYPE    | SIZE (BYTE) | DESCRIPTION  |
|---------|--------------|-------------|--|
| JID     | TEXT         | 14          | JOB ID<br>(ID IS "J + SEVEN-DIGIT NUMERICAL VALUE")              |
| UID     | TEXT         | 8           | USER'S ID  |
| NUM     | INTEGER      | 2           | THE NUMBER OF SHEETS (1 TO 9999)                                 |
| SIDE    | BYTE         | 1           | TWO-SIDED  |
| PCOL    | BYTE         | 1           | PRINT COLOR  |
| PAGE    | INTEGER      | 2           | THE NUMBER OF PAGES OF DOCUMENT<br>(1 TO 9999)                   |
| SIZE    | TEXT         | 2           | PAPER SIZE   |
| SCOL    | TEXT         | 2           | PAPER COLOR  |
| QUAL    | TEXT         | 2           | PAPER QUALITY  |
| SPCL    | TEXT         | 2           | SPECIAL PAPER  |
| HCOL    | TEXT         | 2           | FRONT PAPER COLOR  |
| STPL    | TEXT         | 2           | STAPLE   |
| PLCE    | TEXT         | 2           | PLACE TO BIND  |
| WAY     | TEXT         | 2           | BINDING METHOD   |
| HOLE    | TEXT         | 2           | PUNCHING   |
| SCDL    | BYTE         | 1           | SCHEDULE   |
| SDATE   | DATE/TIME    | 8           | OUTPUT DATE AND TIME<br>(EFFECTIVE ONLY WHEN DATE IS DESIGNATED) |
| COMM    | TEXT         | 40          | COMMENT  |
| SAVE    | BYTE         | 1           | DESIGNATION OF SAVE OF DOCUMENT                                  |
| LONG    | DATE/TIME    | 8           | TIME PERIOD OF SAVING  |
| YEAR    | INTEGER      | 2           | YEARS OF SAVING  |
| REPE    | BYTE         | 1           | REPEAT CLASSIFICATION  |
| OJID    | TEXT         | 14          | PARENT JOB ID  |
| RPDL    | TEXT         | 35          | FILE NAME (RPDL)   |
| FILE    | TEXT         | 35          | FILE NAME  |
| MID     | TEXT         | 14          | ESTIMATION ID  |
| STT     | DATE/TIME    | 8           | START OF PROCESSING  |
| END     | DATE/TIME    | 8           | COMPLETION OF PROCESSING   |
| DATE    | DATE/TIME    | 8           | REGISTERED DATE AND TIME   |
| PERI    | INTEGER      | 2           | PRECEDENCE   |
| UFLG    | TEXT         | 2           | USER JOB STATE FLAG  |
| KFLG    | TEXT         | 2           | MANAGER JOB STATE FLAG   |
| DOCID   | TEXT         | 45          | DOCUMENT ID OF LIFISA  |
| PNAME   | TEXT         | 100         | PRINTER NAME   |
| OPAGE   | INTEGER      | 2           | THE NUMBER OF OUTPUT PAGES                                       |
| ECPY    | INTEGER      | 2           | THE NUMBER OF OUTPUT SHEETS                                      |
| DIVN    | INTEGER      | 2           | THE NUMBER OF DIVIDED JOBS                                       |
| AMNY    | LONG INTEGER | 4           | PRINTING COST (TOTAL)  |
| MEANS   | BYTE         | 1           | OUTPUT STYLE   |
| KCOMM   | TEXT         | 128         | MANAGER COMMENT  |

\* NOTES '1' (49) PARALLEL PRINT  
'2' (50) COLLECTIVE PRINT (NORMAL)  
'3' (51) DEPUTY PRINT

5/19

FIG.5

| ITEM ID | DATA TYPE | SIZE<br>(BYTE) | DESCRIPTION                                     |
|---------|-----------|----------------|---|
| JID     | TEXT      | 14             | JOB ID (EIGHT-DIGIT) + SMALL JOB ID (SIX-DIGIT) |
| PRNT    | TEXT      | 50             | PRINTER NAME                                    |
| STT     | DATETIME  | 8              | PRINT-START IMPOSED DATE                        |
| END     | DATETIME  | 8              | PRINT-COMPLETION IMPOSED DATE                   |
| SNO     | INTEGER   | 2              | STARTING PAGE NUMBER                            |
| NUM     | INTEGER   | 2              | THE NUMBER OF OUTPUT SHEETS                     |
| KFLG    | TEXT      | 2              | MANAGER JOB STATE FLAG *NOTE                    |
| TIME    | INTEGER   | 2              | PRINTING TIME                                   |

\*NOTES    "01" PRINT STANDBY  
          "02" PRINTING  
          "03" STOPPING  
          "04" NOT ALLOCATED TO PRINTER (PENDING)  
          "05" PRINT COMPLETION  
          "06" PRINT CANCEL  
          "07" BOUND  
          "08" SENT  
          "09" COMPLETION OF PROCESSING  
          "99" PRINT ERROR

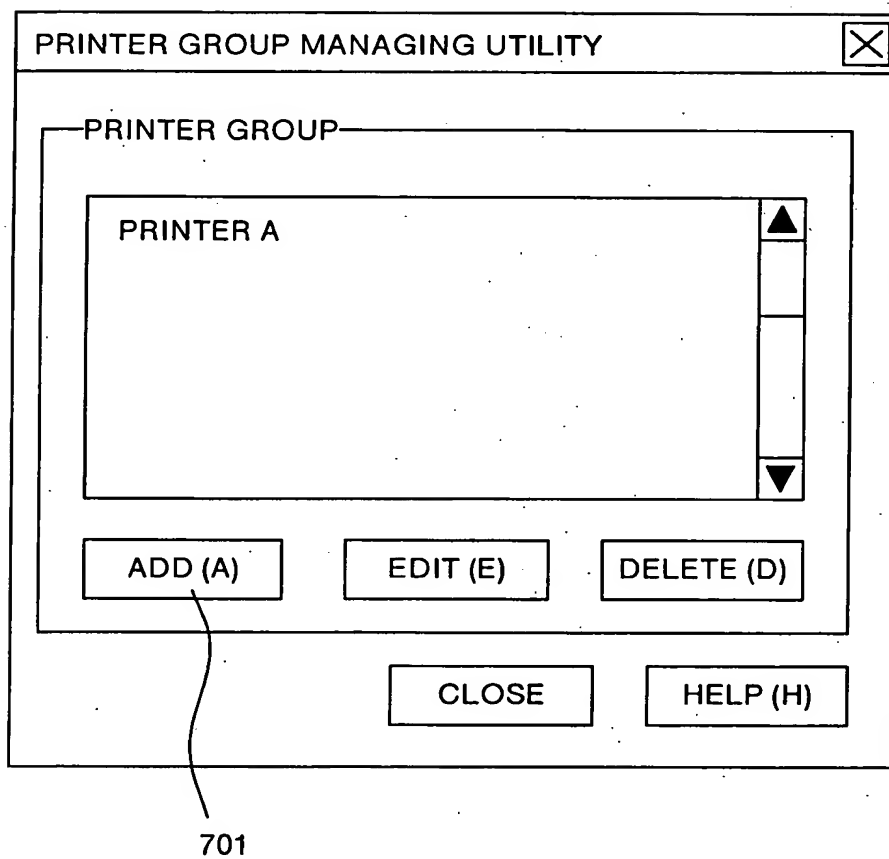
FIG.6

| GROUP NAME | PRINTER NAME | STATE           | IP ADDRESS      | OPERATION AT THE TIME OF RECEPTION | OPERATION AT THE TIME OF COMPLETION | DEPUTY PRINT | PARALLEL PRINT    | COLOR PAGE |
|------------|--------------|-----------------|-----------------|------------------------------------|-------------------------------------|--------------|-------------------|------------|
| PRINTER A  | PRINTER A1   | READY           | 166.192.195.131 | MANUAL AT THE TIME OF INPUT        | DISPLAY COMPLETION SCREEN           | MANUAL       | 30 SHEETS OR MORE | NOT USED   |
|            | PRINTER A2   | READY           | 166.192.195.132 |                                    |                                     |              |                   |            |
|            | PRINTER A3   | WARM UP         | 166.192.195.133 |                                    |                                     |              |                   |            |
|            | PRINTER A4   | PAPER JAMMING   | 166.192.195.134 |                                    |                                     |              |                   |            |
| PRINTER B  | PRINTER B1   | REPLENISH TONER | 166.192.195.141 | MANUAL AT THE TIME OF INPUT        | DISPLAY COMPLETION SCREEN           | AUTOMATIC    | 20 SHEETS OR MORE | USED       |
|            | PRINTER B2   | READY           | 166.192.195.142 |                                    |                                     |              |                   |            |
|            | PRINTER B3   | READY           | 166.192.195.143 |                                    |                                     |              |                   |            |
| .          | .            | .               | .               | .                                  | .                                   | .            | .                 | .          |
| .          | .            | .               | .               | .                                  | .                                   | .            | .                 | .          |
| .          | .            | .               | .               | .                                  | .                                   | .            | .                 | .          |

\*

7/19

FIG.7



8/19

FIG.8

GROUP FORMING

DESIGNATE GROUP NAME AND PRINTER TO BE MANAGED

NAME OF GROUP (G)

PRINTER TO BE MANAGED (M)

| PRINTER NAME | IP ADDRESS | STATE | INSTALLATION PLACE | COMMENT |
|--------------|------------|-------|--------------------|---------|
|              |            |       |                    |         |
|              |            |       |                    |         |
|              |            |       |                    |         |
|              |            |       |                    |         |

PRECEDENCE

EDIT (S)

801

ADD ↑ (C)

RELEASE ↓ (D)

ADDABLE PRINTER (K)

| PRINTER NAME | IP ADDRESS      |
|--------------|-----------------|
| PRINTER B1   | 166.192.195.141 |
| PRINTER B2   | 166.192.195.142 |
| PRINTER B3   | 166.192.195.143 |
|              |                 |

DIRECTLY DESIGNATE BY IP ADDRESS (I)

< RETURN (B)

NEXT (N) >

CANCEL

HELP (H)

802



9/19

FIG.9

GROUP FORMING

● SET OPERATIONS WHEN JOB IS RECEIVED OR PRINT IS COMPLETED

OPERATIONS WHEN JOB IS RECEIVED

☒ ALLOCATE JOB ON JOB RECEIVING SCREEN (V)

☐ ALLOCATE JOB AUTOMATICALLY (K)

☐ ALLOCATE JOB IN LIST (L)

OPERATIONS WHEN PRINT IS COMPLETED

☒ DISPLAY PRINT COMPLETION SCREEN (E)

☐ DELETE JOB AUTOMATICALLY (D)

● SET DEPUTY/PARALLEL PRINT


☒ DEPUTY PRINT (T)

☐ MANUAL DEPUTY PRINT (M)

☒ AUTOMATIC DEPUTY PRINT (U)

☒ PARALLEL PRINT (R)

THE NUMBER OF PRINTS (P)

WHEN PRINTING ON  

OR MORE SHEETS

● SET COVER PAGE

☒ COVER PAGE IS USED (N)

< RETURN (B)

COMPLETE

CANCEL

HELP (H)

901

10/19

FIG.10

RECEPTION OF JOB



RECEIVING TIME2000/02/15 15:48

NAME OF DOCUMENTXXRECEIVED DOCUMENT

THE NUMBER OF COPIES300 COPIES

A NEW JOB WAS INPUT.  
ALLOCATE PRINTER JOB.

THE NUMBER OF UNALLOCATED COPIES : 240

| PRINTER NAME   | STATE     | THE NUMBER OF<br>ALLOCATED COPIES |
|--|-----------|-----------------------------------|
|  PRINTER A1 | STOP      | 30                                |
|  PRINTER A2 | OPERATING | 30                                |
|  |           |                                   |
|  |           |                                   |

AVERAGING (V)

RELEASE  
ALLOCATION (S)

< RETURN (B)

NEXT (N) >

CANCEL

HELP (H)

1001

1002

11/19

FIG.11

RECEPTION OF JOB

RECEIVING TIME 2000/02/15 15:48

NAME OF DOCUMENT XXRECEIVED DOCUMENT

THE NUMBER OF COPIES 300 COPIES

SET CONDITION OF JOB

PRECEDENCE (P)

3 LOW HIGH

COVER PAGE

COVER PAGE IS USED

< RETURN (B) COMPLETE CANCEL HELP (H)

1101

1102

12/19

FIG.12

1204

Printer CRD/PFP PRINT APPLICATION

FILE DISPLAY JOB .....

.....

PRINTER A GROUP

PRINTER A1

PRINTER A2

PRINTER A3

PRINTER A4

UNALLOCATED

PRINTER B GROUP

PRINTER B1

.....

| STATE | JOB ID   | NAME OF DOCUMENT                    | USER'S NAME   | OUTPUT PRINTER | PRINTING TIME | ... |
|-------|----------|-------------------------------------|---------------|----------------|---------------|-----|
|       | J0000012 | NEWCOMER EDUCATION                  | (CO. LTD.) ZZ | PRINTER A1     | 20            |     |
|       | J0000100 | NOTICE OF RELOCATION OF HOME OFFICE | XX (CO. LTD.) | PRINTER A2     | 100           |     |
|       | J0000073 | DRAFT                               | XX UNIVERSITY | PRINTER A1     | 45            |     |
|       | J0000152 | YY NOTICE VOL.11                    | YY STORE      | PRINTER A1     | 10            |     |
|       |          |                                     | :             |                |               |     |

STATE

JOB ID

NAME OF DOCUMENT

USER'S NAME

OUTPUT PRINTER

PRINTING TIME

...

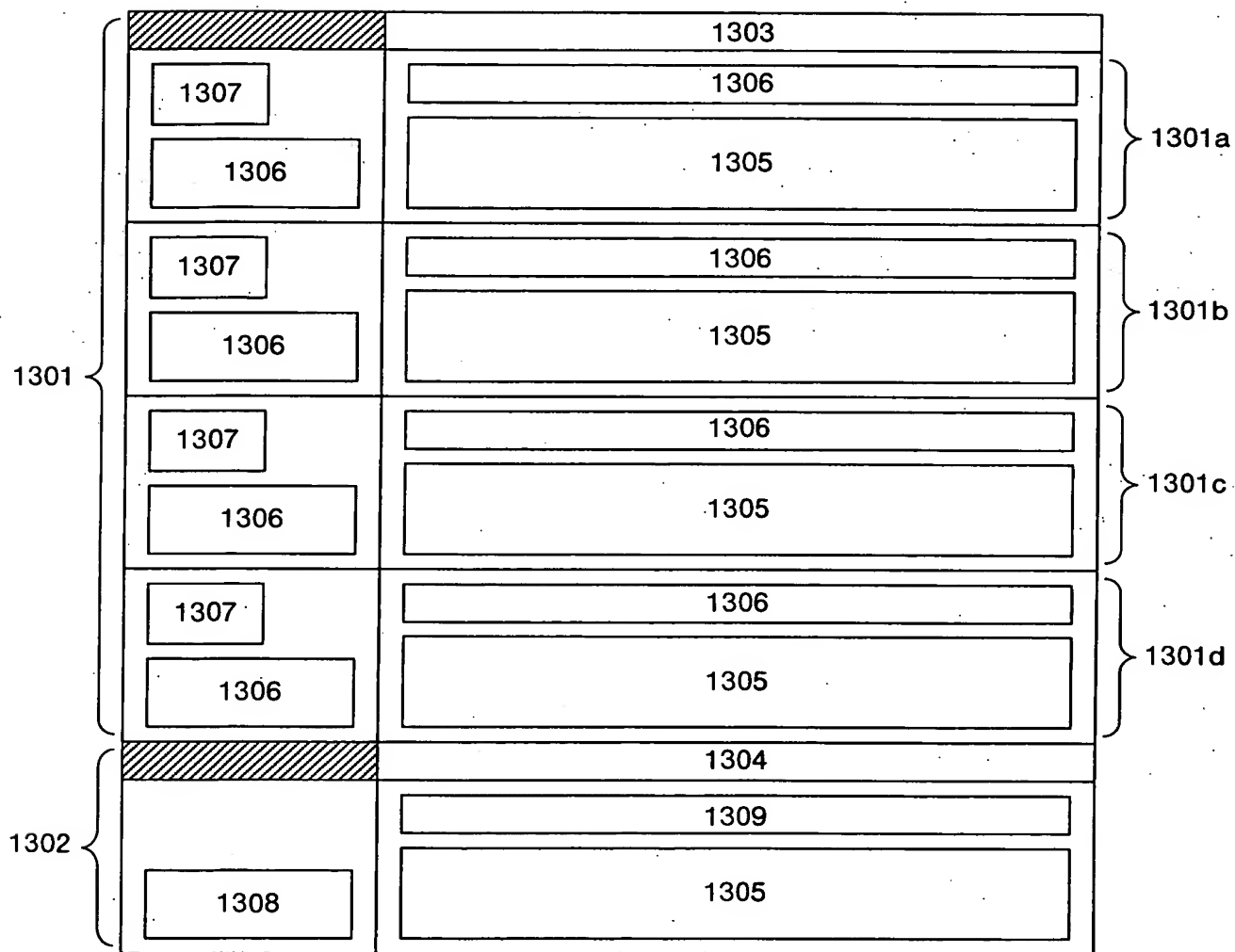
|  | J0000005 | GREETING | (CO. LTD.) YY | PRINTER A4 | 0 |  |
|  |  |  | : |  |  |  |

1201

1202

1203

FIG.13



**FIG. 14**


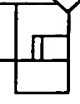
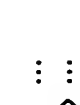
| Printer CRD/PFP SCHEDULE VIEW  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| FILE DISPLAY JOB .....   |  |  |  |  |  |  |  |  |  |
| <div>    </div> |  |  |  |  |  |  |  |  |  |
| <div> <div>PRINTER A GROUP ▼</div> <div>1413</div> </div>  |  |  |  |  |  |  |  |  |  |
| <div> <div>0 60 120 180 240 300</div> <div>1403</div> </div>   |  |  |  |  |  |  |  |  |  |
| <div> <div>NAME OF DOCUMENT: NEWCOMER</div> <div>USER'S (CO. LTD.) NAME: TT</div> <div>MEMO:</div> </div>  |  |  |  |  |  |  |  |  |  |
| <div> <div>PRINTER A1</div> <div> <div>JOB ID : J0000012</div> <div>PROGRESS STATE : 650/1000</div> <div>OUTPUT STYLE : COLLECTIVE</div> </div> </div>   |  |  |  |  |  |  |  |  |  |
| <div> <div>PRINTER A2</div> <div> <div>JOB ID : J0000100</div> </div> </div>   |  |  |  |  |  |  |  |  |  |
| <div> <div>PRINTER A4</div> <div> <div>JOB ID : J0000055</div> <div>PROGRESS STATE : 1514/2030</div> <div>OUTPUT STYLE : PARALLEL</div> </div> </div>  |  |  |  |  |  |  |  |  |  |
| <div> <div>UNALLOCATED</div> <div> <div>TOTAL NUMBER : 4</div> <div>TOTAL SHEETS : 2432</div> </div> </div>  |  |  |  |  |  |  |  |  |  |

FIG.15


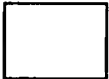





|   |   |
|---|---|
|    | JOB WHICH IS<br>BEING PRINTED             |
|    | COLLECTIVE PRINT JOB<br>& UNALLOCATED JOB |
|    | PARALLEL PRINT JOB                        |
|    | DEPUTY PRINT JOB                          |
|    | PENDING JOB                               |
|  | STOPPED JOB                               |
|  | ERROR JOB                                 |

FIG.16

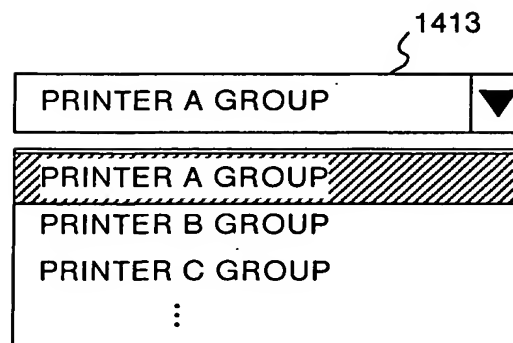














FIG.17

|   |                       |
|---|-----------------------|
|    | CALL SERVICE          |
|    | OTHER ERROR           |
|    | DOOR OPEN             |
|    | PAPER JAMMING         |
|   | REPLENISH PAPER       |
|  | READY                 |
|  | STOP                  |
|  | REPLENISH TONER       |
|  | WARM UP               |
|  | NO RESPONSE           |
|  | OFFLINE               |
|  | ENERGY<br>SAVING MODE |



17/19

FIG.18

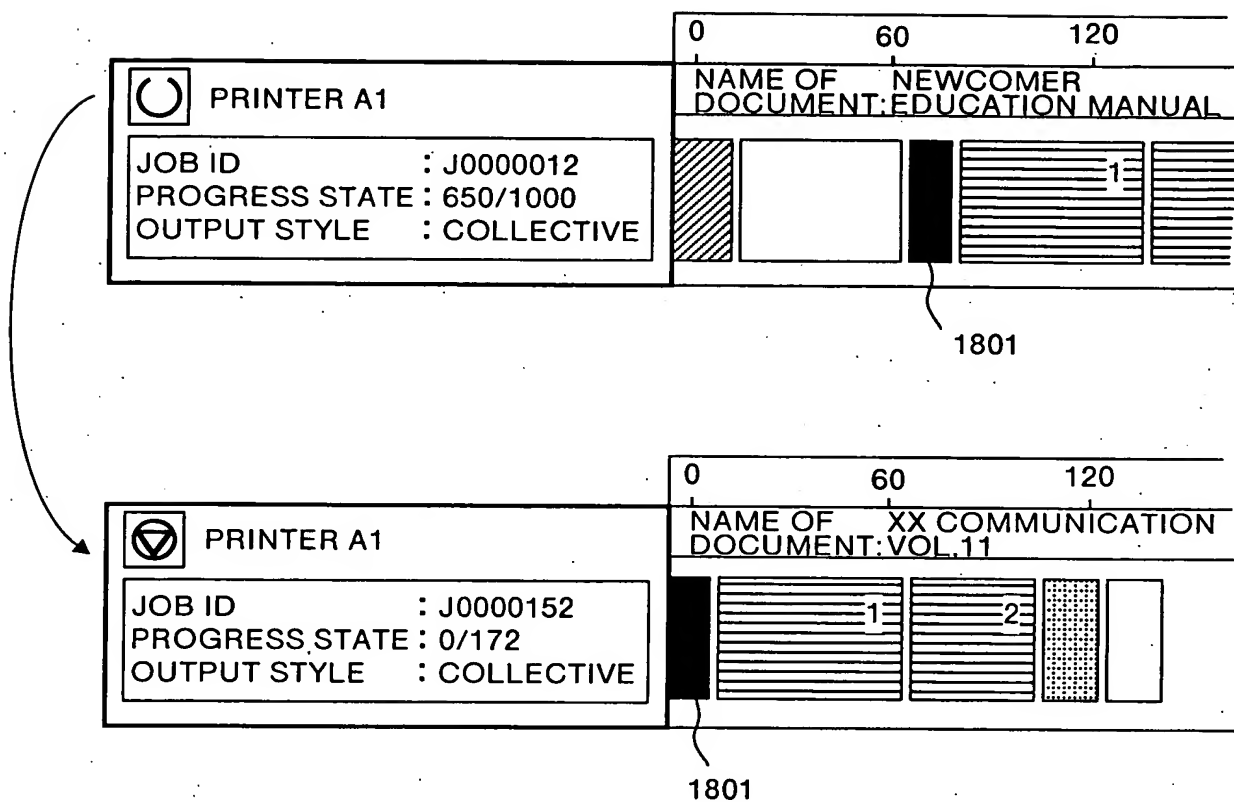
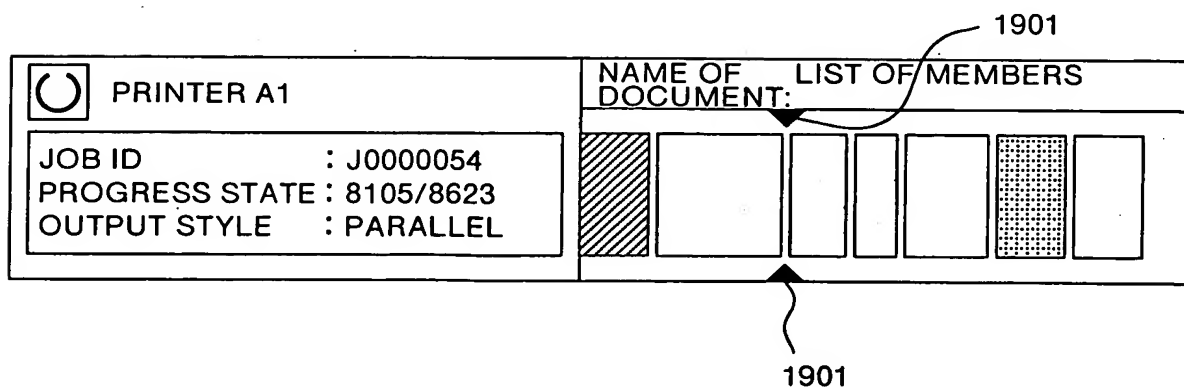


FIG.19



18/19

FIG.20

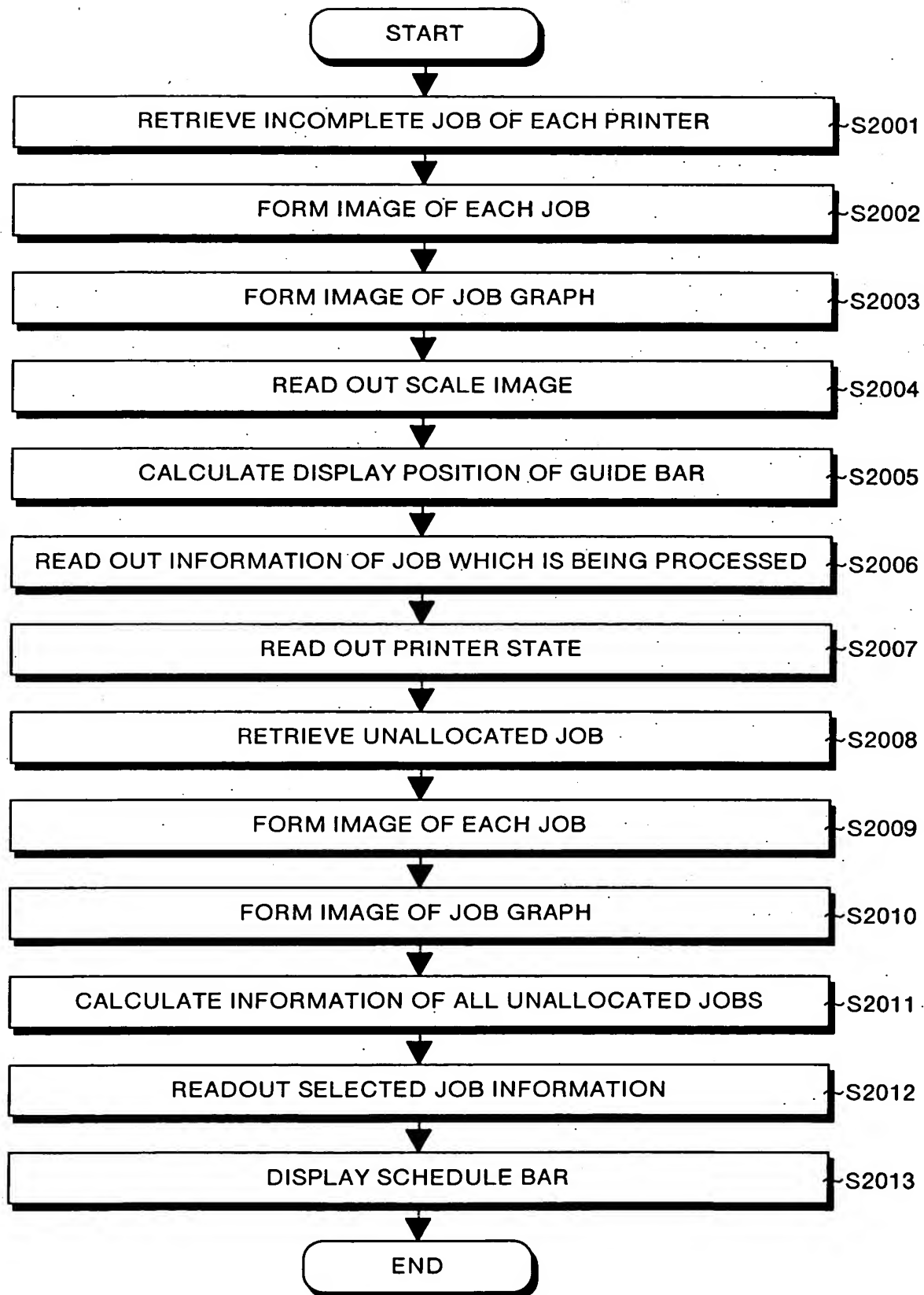


FIG.21

| PRINT-JOB LIST |          |                     |               |                |           |                  | ⊗   |
|----------------|----------|---------------------|---------------|----------------|-----------|------------------|-----|
| STATE          | JOB ID   | NAME OF DOCUMENT    | USER'S NAME   | OUTPUT PRINTER | FILE SIZE | NUMBER OF COPIES | ... |
| BEING PRINTED  | J0000023 | REUNION MEMBER LIST | XX UNIVERSITY | ORANGE         | 120k      | 1520             |     |
| ON STANDBY     | J0000049 | SEMINAR TEXT        | (CO. LTD.) YY | MELON          | 96k       | 100              |     |
| ON STANDBY     | J0000102 | OPERATION MANUAL    | (CO. LTD.) ZZ | ORANGE         | 532k      | 2250             |     |
|                |          |                     |               |                |           |                  | .   |
|                |          |                     |               |                |           |                  | .   |
|                |          |                     |               |                |           |                  | .   |